Receipt date: JUN 3 0 2006

Sheet 1

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

| PA            |                           | uction Act of | 1995, no persons are required to | U.S. Patent and Trader | PTO/SB/08A (07-05) oved for use through 07/31/2006. OMB 0651-0031 nark Office; U.S. DEPARTMENT OF COMMERCE ion unless it contains a valid OMB control number. |
|---------------|---------------------------|---------------|----------------------------------|------------------------|---|
|               | Substitute for form 1449/ | PTO           |                                  | Cor                    | mplete if Known   |
|               |                           |               |                                  | Application Number     | 10/576,385  |
|               | INFORMAT                  | ION D         | SCLOSURE                         | Filing Date            | April 19, 2006  |
|               |                           |               |                                  | First Named Inventor   | CHUANG, Steven  |
|               |                           |               | APPLICANT                        | Art Unit               | 1745  |
|               | (Use as ma                | ny sheets a:  | s necessary)                     | Examiner Name          | unknown   |
| $\overline{}$ | Shoot 1                   | of            | 2                                | Attorney Docket Number | 089498 0496   |

| Examiner  | Cite | Document Number                         | Publication Date | Name of Patentee or         | Pages, Columns, Lines, Where                 |  |
|-----------|------|---|------------------|-----------------------------|--|--|
| Initials* |      | Number-Kind Code <sup>2 (# known)</sup> | MM-DD-YYYY       | Applicant of Cited Document | Relevant Passages or Relevant Figures Appear |  |
|           | AA   | US- 4,259,414                           | 03/31/1981       | Williams                    | 3 11 7                                       |  |
|           | AB   | <sup>US-</sup> 5,376,469                | 12/27/1994       | Gur et al.                  |  |  |
|           | AC   | <sup>US-</sup> 5,733,435                | 03/31/1998       | Prasad et al.               |  |  |
|           | AD   | <sup>US-</sup> 5,955,039                | 09/21/1999       | Dowdy                       |  |  |
|           | AE   | <sup>US-</sup> 6,017,646                | 01/25/2000       | Prasad et al.               |  |  |
|           | AF   | <sup>US-</sup> 6,183,896                | 02/06/2001       | Horita et al.               |  |  |
|           | AG   | <sup>US-</sup> 2003/003598              | 02/20/2003       | Gorte et al.                |  |  |
|           | AH   | <sup>US-</sup> 2003/0215689             | 11/20/2003       | Keegan                      |  |  |
|           |      | US-                                     |                  |                             |  |  |
|           |      | US-                                     |                  |                             |  |  |
|           |      | US-                                     |                  |                             |  |  |
|           |      | US-                                     |                  |                             |  |  |
|           |      | US-                                     |                  |                             |  |  |
|           |      | US-                                     |                  |                             |  |  |
| ·         |      | US-                                     |                  | •                           |  |  |
|           |      | US-                                     |                  |                             |  |  |
|           |      | US-                                     |                  |                             |  |  |
|           |      | US-                                     |                  |                             |  |  |
|           |      | US-                                     |                  |                             |  |  |

| Examiner Initials* | Cite<br>No.1 | Foreign Patent Document   | Publication Date | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages | T |
|--------------------|--------------|---|------------------|--|---|---|
|                    |              | Country Code <sup>3</sup> "Number <sup>4</sup> "Kind Code <sup>5</sup> (if known) | MM-DD-YYYY       |  | Or Relevant Figures Appear                        | T |
|                    | ВА           | WO 01/39309   | 05/31/2001       | Northwestern University                            |   |   |
|                    | вв           | WO 03/096469  | 11/23/2003       | Shell Internationale                               |   |   |
|                    | вс           | WO 03/098729  | 11/27/2003       | Delphi Technologies                                |   |   |
|                    |              |   |                  |  |   |   |
|                    |              |   |                  |  |   | L |
|                    |              |   |                  |  |   |   |

| Examiner<br>Signature | /Stephan Essex/ (12/17/2010) | Date<br>Considered | 12/17/2010 |
|-----------------------|------------------------------|--------------------|------------|
| l "                   |                              |                    |            |

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08B (07-05)
Approved for use through 07/31/2006. OMB 0651-0031
S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

| r pprotoction accounting to the water of the country of the water of the country of the water of the country of |
|--|
| U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMER  |
| Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control numb   |

| Substitute for form 1449/PTO      |                   | Complete if Known |           |                        |                |
|-----------------------------------|-------------------|-------------------|-----------|------------------------|----------------|
|                                   |                   |                   |           | Application Number     | 10/576,385     |
| INFO                              | DRMATION          | DIS               | CLOSURE   | Filing Date            | April 19, 2006 |
| STA                               | TEMENT E          | BY A              | PPLICANT  | First Named Inventor   | CHUANG, Steven |
|                                   | (lica se many cha | atc ac n          | acaecans) | Art Unit               | 1745           |
| (Use as many sheets as necessary) |                   |                   |           | Examiner Name          | unknown        |
| Sheet                             | 2                 | of                | 2         | Attorney Docket Number | 089498.0496    |

| Examiner  | Cite | NON PATENT LITERATURE DOCUMENTS  Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of                          |                |
|-----------|------|--|----------------|
| Initials* | No.1 | the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|           | CA   | RODRIGUEZ, Jose A., Interaction of Sulfur with Well-Defined Metal, American Chemical Society, Accounts of Chemical Research,1999                             |                |
|           | СВ   | NASRI, N. Shawal, A Comparative Study of Sulfur Poisoning, American Chemical Society, Energy & Fuels, 1998   |                |
|           | cc   | WU, Y.P., Effects of Doped Sulfur on Electrochemical Performance, Elsevier Science, Journal of Power Sources, 2002   |                |
|           |      |  |                |
|           |      |  |                |
|           |      |  |                |
|           |      |  |                |
|           |      |  |                |
|           |      |  |                |
|           |      |  |                |

| Examiner  | (041 F/ /40/47/0040)         | Date       | 40/47/0040 |
|-----------|------------------------------|------------|------------|
| Signature | /Stephan Essex/ (12/17/2010) | Considered | 12/1//2010 |

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

<sup>1</sup> Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.